

Wabaunsee County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/30/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 16 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Wabaunsee County economy.¹

These 16 sectors have a total direct output of approximately **\$135.5 million** and support **738.6 jobs** in Wabaunsee County. Running the model for all 16 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Wabaunsee County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	738.6	26.53%	\$32,394,580	25.64%	\$135,515,377	107.27%
Indirect Effect	81.3	2.92%	\$4,927,949	3.90%	\$10,959,647	8.68%
Induced Effect	27.6	0.99%	\$1,724,653	1.37%	\$3,315,896	2.62%
Total Effect	847.5	30.44%	\$39,047,182	30.91%	\$149,790,920	118.57%

As shown in the above table, agriculture, food, and food processing sectors support **847.5 jobs**, or **30.44%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$149.8 million**, roughly **118.57% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 16 agriculture, food, and food processing sectors is approximately **\$39.0 million**, or **30.91% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **30.91% of the total economy**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **454.7 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Wabaunsee County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	454.7	\$48,408,182
All other crop farming	95.0	\$6,529,115
Meat processed from carcasses	45.5	\$24,174,090
Dairy cattle and milk production	34.0	\$15,430,716
Canned fruits and vegetables manufacturing	31.3	\$15,055,395
Grain farming	27.4	\$9,186,661
Landscape and horticultural services	22.4	\$994,049
Truck transportation	19.6	\$3,234,622
Wholesale trade	10.7	\$2,030,673
Monetary authorities and depository credit intermediation	10.3	\$1,594,847

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$48.4 million** to the Wabaunsee County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	454.7	\$48,408,182
Meat processed from carcasses	45.5	\$24,174,090
Dairy cattle and milk production	34.0	\$15,430,716
Canned fruits and vegetables manufacturing	31.3	\$15,055,395
Grain farming	27.4	\$9,186,661
Oilseed farming	8.3	\$8,321,191
All other crop farming	95.0	\$6,529,115
Animal, except poultry, slaughtering	7.4	\$5,357,321
Truck transportation	19.6	\$3,234,622
Wholesale trade	10.7	\$2,030,673

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Wabaunsee County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	8.3	\$8,321,190.83
Grain farming	27.4	\$9,186,660.77
Vegetable and melon farming	0.2	\$48,076.53
Fruit farming	1.5	\$176,399.65
Tree nut farming	0.02	\$5,269.55
Greenhouse, nursery, and floriculture production	6.2	\$1,170,745.97
All other crop farming	95.0	\$6,529,115.20
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	454.7	\$48,408,180.24
Dairy cattle and milk production	34.0	\$15,430,715.56
Poultry and egg production	0.1	\$112,115.93
Animal production, except cattle and poultry and eggs	3.8	\$474,348.13
Canned fruits and vegetables manufacturing	31.3	\$15,055,395.13
Animal, except poultry, slaughtering	7.4	\$5,357,321.26
Meat processed from carcasses	45.5	\$24,174,089.43
Bread and bakery product, except frozen, manufacturing	0.8	\$71,700.02
Landscape and horticultural services	22.4	\$994,049.37

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Wabaunsee County, the retail sector was omitted.